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ABSTRACT OF THE DISCLOSURE

A client driver requests data packet transfers from a peripheral device through a

protocol stack and a host controller. The protocol stack receives the data transfer

request and allocates the request into the host controller schedule. The host controller

schedule requests the data of the peripheral device, and directs the received data into

previously allocated buffers. The host controller then sends a signal to the client driver

that the respective buffers are filled. The host controller can then deactivate the

instructions in the host controller schedule until further notice so that the instructions do

not need to be deleted from the schedule. The client driver extracts the data from the

buffer, and sends a signal to the host controller that the buffer can be used again. The

request in the host controller schedule can then be reactivated without having to

necessarily re-insert new instructions into the host controller schedule.

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